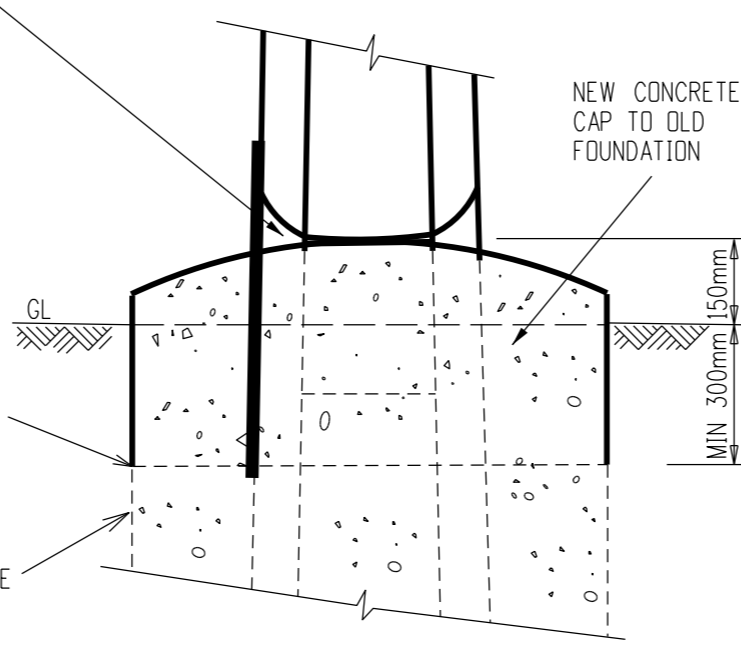
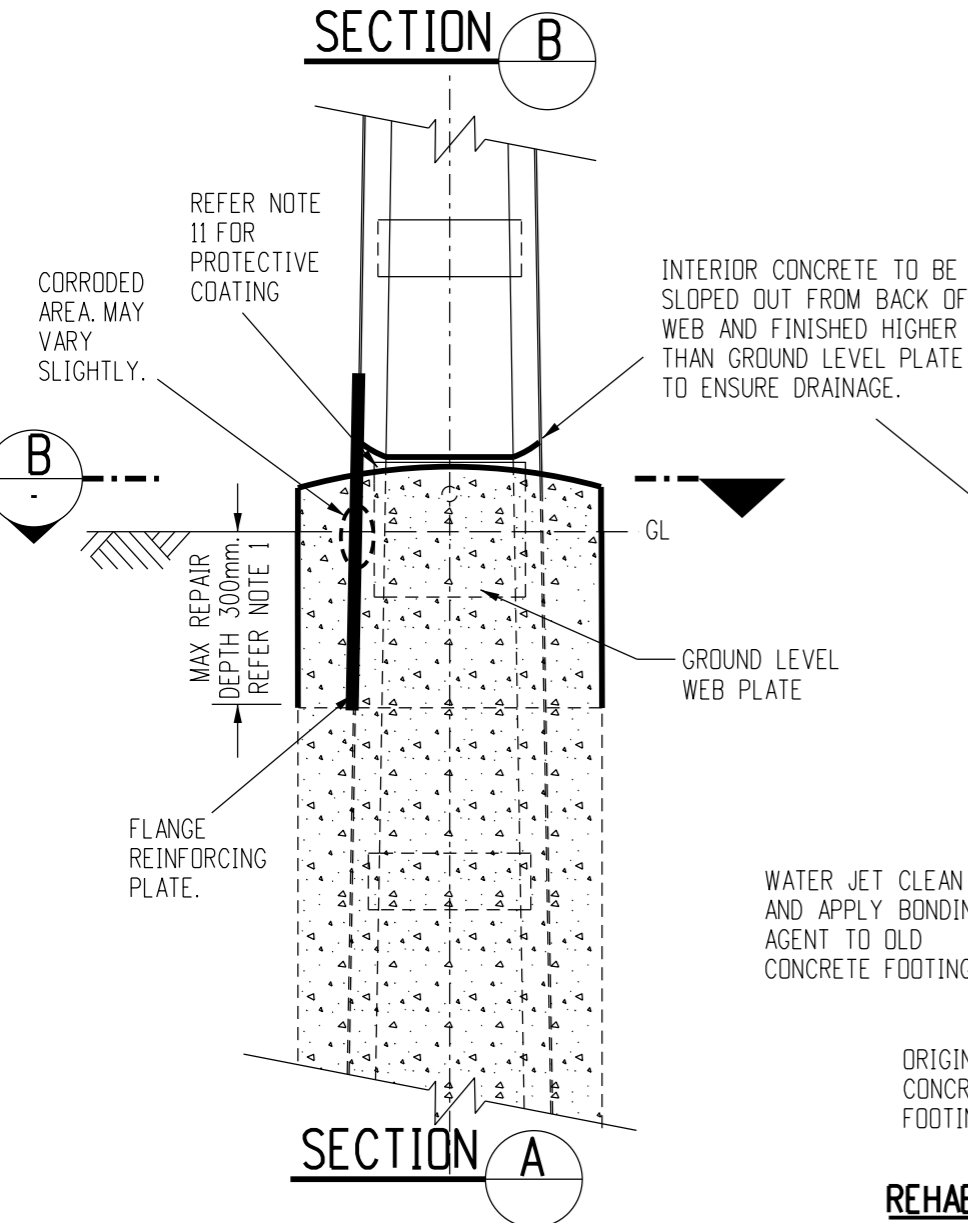


**TYPICAL WELD PROCEDURE FOR PLATE REPAIR
(CONCRETE CAP REMOVED FOR CLARITY)**



REHABILITATION OF POLE STRUCTURE AT GROUND LEVEL

PROCEDURE FOR REHABILITATION AND REPAIR OF CORRODED AREAS AT GROUND LEVEL OF POLE STRUCTURE

1. THIS POLE REHABILITATION METHOD IS ONLY SUITABLE WHEN LOSS OF SECTION IS LESS THAN 150mm LONG AND NOT MORE THAN 40% OF CROSS SECTIONAL AREA IS LOST. THIS METHOD IS ALSO LIMITED TO CORROSION FOUND AT MAX DEPTH OF 300mm BELOW GROUND LEVEL.
2. CHECK ALL SIDES OF STEEL MEMBER SURFACE FOR CORROSION AND REPEAT REPAIRS AS REQUIRED.
3. REFER TO S01-4-4-01 PN PROCEDURE 'POLE INSTALLATION PROCEDURE (CIVIL WORKS)' FOR THE REQUIREMENT AND INSTALLATION OF NEW POLE CONCRETE FOUNDATIONS.
4. HORIZONTAL CENTRE LINE OF GROUND LEVEL PLATE IS TO BE AT GROUND LEVEL. REFER TO DRAWING S01-4-1-21 FOR POLE FOUNDATION DEPTH.
5. REMOVE GRASS 'SODS' (IF PRESENT) FROM AROUND THE BASE OF THE POLE TO A DIAMETER OF 1m. SAVE SODS AND TOPSOIL WHERE APPROPRIATE FOR USE IN REINSTATEMENT.
6. EXCAVATE AROUND THE BASE OF THE POLE TO A MINIMUM OF 300mm AND REMOVE ALL EXCAVATED MATERIALS FROM THE SITE OF THE WORKS. EXCAVATION MAY REQUIRE THE REMOVAL OF THE EXISTING CONCRETE FOOTING.
7. INSPECT POLE BASE FOR CORROSION AND ASSESS IF WELDING WORKS ARE REQUIRED.
8. **NOTE:** SHOULD THIS POLE REPAIR METHOD NOT MEET THE CONDITIONS IN NOTE 1 THEN ALL WORK ON THAT POLE SHALL CEASE AND POWER AND WATER SUPERINTENDANT SHALL BE NOTIFIED FOR FURTHER ACTION.
9. CLEAN THE AREA OF THE POLE TO BE TREATED TO A BRIGHT STEEL FINISH USING A NEEDLE GUN AND POWER WIRE BRUSH TO ACCESS ALL CONFINED AREAS.
10. (IF WELDING WORKS REQUIRED) PLACE 6mm THICK PLATE TO COVER THE CORRODED AREA. PLATE MUST BE THE FULL WIDTH OF THE STEEL MEMBER AREA AND 300mm LENGTH ON EITHER SIDE OF THE CORRODED AREA. PLACE 6mm THICK PLATE TO COVER THE FULL SURFACE IF THE CORRODED AREA IS ON THE GROUND LEVEL WEB PLATE CONNECTING THE C CHANNELS. WELD FULL FILLET WELD ON ALL SIDES.
11. CLEAN WITH POWER-WIRE BRUSH. APPLY 2 COATS OF ALKALI RESISTANT PROTECTIVE COATING SIMILAR TO "STYRALUX 220 FREIGHTERS SILVER W1700" COVERING 300mm ABOVE AND BELOW THE CENTRE LINE OF THE GROUND LEVEL PLATE.
12. PREPARE OLD CONCRETE AREA BY SCABBLING AND APPLY BONDING AGENT SIMILAR TO "LOCKCRETE" AND FORM UP AND PLACE CONCRETE CAP OVER EXISTING POLE FOOTING. CIRCULAR FORMERS MUST BE USED ON ALL POLE FOUNDATIONS.
13. CONCRETE SHALL BE GRADE S40 SUPPLIED IN ACCORDANCE WITH AS 1379, OF 40MPA WITH MINIMUM CEMENT CONTENT OF 400kg/m³, A MAXIMUM AGGREGATE SIZE OF 16mm AND TARGET SLUMP BETWEEN 100-150mm.
14. REPLACE CONCRETE TO 150mm ABOVE GROUND LEVEL AND SLOPE TO SHED WATER. FILL INSIDE OF POLE WITH CONCRETE TO TOP OF GROUND LEVEL PLATES AND SLOPE TO SHED WATER. CONCRETE SHALL BE WELL COMPACTED
15. REMOVE FORMWORK AND REINSTATE AREA AND REPLACE GRASS 'SODS' AND TOPSOIL AS REQUIRED.
16. FOR WELDED POLE AND FOUNDATION STRENGTHS REFER TO S01-4-1-16 FOR BOLTED POLE AND FOUNDATION STRENGTHS REFER TO S01-4-1-21

7	PROCEDURE NOTES AND REPAIR PLATE SIZE AMENDED, REPAIR METHOD APPLICATION LIMITATION ADDED	I.B.	MAY'16	A.T.	B.C.
6	NOTE 6 AMENDED	C.C.	OCT'13	B.C.	B.C.
5	NOTES 9, 10 AMENDED	A.T.	MAY'13	B.C.	B.C.
4	NOTE 12 AMENDED	C.C.	NOV'11	A.T.	S.C.
3	GROUND LEVEL PLATE NOTE ADDED	J.C.	MAR'09	A.T.	S.C.
NO	DESCRIPTION	DRN	DATE	CKD	APPD
AMENDMENTS					



DES	M.BOCK	POWER STANDARD DRAWING			
DRN	A.SCHMID	POLE STRUCTURES FOUNDATION GROUND LEVEL DETAILS AND REHABILITATION OF POLE STRUCTURE AT GROUND LEVEL			
CKD	J.GOLDSMITH				
APPD	M.BOCK				
SCALE	1:5				
ISSUED	JULY'02	A3	DRAWING NUMBER	S01-2-5-29	
ALL DIM. IN	mm				
DRAFTING STANDARD TO AS.1100		CAD PRODUCT - DO NOT AMEND MANUALLY		AMDT	